

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Sheet 1 of 6

Complete if Known	
<b>Application Number</b>	10/714,567
<b>Filing Date</b>	November 14, 2003
<b>First Named Inventor</b>	Wentworth, Paul
<b>Group Art Unit</b>	1641
<b>Examiner Name</b>	Venci, David
<b>Attorney Docket No:</b> 1361.028US1	

**US PATENT DOCUMENTS**

Examiner Initials*	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date if Appropriate
/BS/	US-4,559,157	12/17/1985	Smith, James A., et al.	04/21/1983
	US-4,608,392	08/26/1986	Jacquet, Bernard , et al.	08/28/1984
	US-4,820,508	04/11/1989	Wortzman, Mitchell S.	06/23/1987
	US-4,992,478	02/12/1991	Geria, Navin M.	04/04/1988
	US-5,162,217	11/10/1992	Hartman, J R., et al.	12/08/1989
	US-5,362,492	11/08/1994	Schuetterl, Achim , et al.	02/25/1993
	US-5,472,691	12/05/1995	Marklund, Stefan , et al.	09/24/1993
	US-5,599,712	02/04/1997	Greenberger, Joel S.	10/15/1993
	US-5,637,315	06/10/1997	Zern, Mark , et al.	12/02/1994
	US-5,647,315	07/15/1997	Saito, Tetsushi	10/04/1995
	US-5,747,026	05/05/1998	Crapo, James D., et al.	02/02/1994
	US-5,848,290	12/08/1998	Yoshida, Shinichi , et al.	02/16/1996
	US-5,994,339	11/30/1999	Crapo, James D.	06/07/1995
	US-6,030,611	02/29/2000	Gorecki, Marian , et al.	05/26/1995
	US-6,040,611	03/21/2000	De Los Santos, Hector J., et al.	09/10/1998

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
/BS/	WO-98/25645A1	06/18/1998	Wolpert, E., et al.	
/BS/	WO-03/017992A2	03/06/2003	Petyaev, I.,	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/BS/		ALLEN, R C., et al., "The Superoxide Anion and Singlet Molecular Oxygen: Their Role in the Microbicidal Activity of the Polymorphonuclear Leukocyte", <i>Biochemical &amp; Biophysical Research Communications</i> , 60(3), (October 8, 1974),909-17	
		ARLAUD, G. J., et al., "A Functional Model of the Human C1 Complex : Emergence of a Functional Model", <i>Immunology Today</i> , 8(4), (1987), 106-111	
		BAEK, J M., et al., "Nucleotide Sequence of a cDNA Encoding Soybean Bowman-Birk Proteinase Inhibitor", <i>Plant Physiology</i> , 102(2), (June 1993),687	
		BEAUCHAMP, C., et al., "Superoxide Dismutase: Improved Assays and an Assay Applicable to Acrylamide Gels", <i>Analytical Biochemistry</i> , 44(1), (November 1971),276-87	
		BENT, D V., et al., "Excited State Chemistry of Aromatic Amino Acids and Related Peptides. III. Tryptophan", <i>Journal of the American Chemical Society</i> , 97(10), (May 14, 1975),2612-9	

**EXAMINER**

/Bin Shen/

**DATE CONSIDERED** 10/9/2008

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

Application Number	10/714,567
Filing Date	November 14, 2003
First Named Inventor	Wentworth, Paul
Group Art Unit	1641
Examiner Name	Venci, David

Sheet 2 of 6

Attorney Docket No: 1361.028US1

## OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/BS/		BERTHIAUME, F., et al., "Antibody-Targeted Photolysis of Bacteria <i>in Vivo</i> ", <i>Bio/Technology</i> , 12(7), (July 1994),703-6	
		BLACKBURN, G M., et al., "Catalytic Antibodies", <i>Advances in Physical Organic Chemistry</i> , 31, (1998),249-392	
		BRÜNGER, A T., et al., "Crystallography & NMR System: A New Software Suite for Macromolecular Structure Determination.", <i>Acta Crystallographica Section D-Biological Crystallography</i> , 54 (Pt 5), (September 1, 1998),905-21	
		BURLEY, S K., et al., "Aromatic-Aromatic Interaction: a Mechanism of Protein Structure Stabilization", <i>Science</i> , 229(4708), (July 5, 1985),23-8	
		BURTON, D R., "Antibody: the Flexible Adaptor Molecule", <i>Trends in Biochemical Sciences</i> , 15(2), (February 1990),64-9	
		CACACE, F., et al., "Experimental Detection of Hydrogen Trioxide", <i>Science</i> , 285(5424), (July 2, 1999),81-82	
		CANNAC-CAFFREY, V , et al., "The Protein Sequence of an Archaeal Catalase-Peroxidase", <i>Biochimie</i> , 80(12), (December 1998),1003-11	
		CERKOVNIK, JANEZ , et al., "Characterization and Reactivity of Hydrogen Trioxide (HO <sub>2</sub> ): A Reactive Intermediate Formed in the Low-Temperature Ozonation of 2-Ethylanthrahydroquinone", <i>Journal of the American Chemical Society</i> , 115(25), (1993),12169-12170	
		COREY, E J., et al., "Generation of Δ <sub>6</sub> O <sub>2</sub> Oxygen From Triethylsilane and Ozone", <i>Journal of the American Chemical Society</i> , 108(9), (April 30, 1986),2472 - 2473	
		DEBY, CAROL , "De L'Oxygène", <i>La Recherche</i> , 228, Journal article in French,(January 1991),57-64	
		DETTY, MICHAEL R., et al., "Tellurapyrylium Dyes as Catalysts for the Conversion of Singlet Oxygen and Water to Hydrogen Peroxide", <i>Journal of the American Chemical Society</i> , 112(10), (May 9, 1990),4086 - 4088	
		DRAPER, H H., et al., "A Comparative Evaluation of Thiobarbituric Acid Methods for the Determination of Malondialdehyde in Biological Materials", <i>Free Radical Biology &amp; Medicine</i> , 15(4), (1993),353-363	
		ESNOUF, ROBERT M., "]. Further Additions to MolScript Version 1.4, Including Reading and Contouring of Electron Density Maps", <i>Acta Crystallographica Section D-Biological Crystallography</i> , 55(4), (April 1999),938-940	
		FEE, J. A., "Is Superoxide Toxic and are Superoxide Dismutases Essential for Aerobic Life", In: <i>Oxygen and Oxy-Radicals in Chemistry and Biology – Proceedings of the International Conference on Oxygen and Oxy-Radicals</i> , held at the University of Texas at Austin, in May, 1980 (New York: Academic Press (May, 1980, edited by M. A. Rodgers), 205-239	
▼		FELDHOFF, R C., et al., "Determination of the Number and Relative Position of Tryptophan Residues in Various Albumins", <i>Biochemical Journal</i> , 159(3), (December 1, 1976),529-33	

EXAMINER

/Bin Shen/

DATE CONSIDERED 10/9/2008

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(Use as many sheets as necessary)

Complete If Known	
Application Number	10/714,567
Filing Date	November 14, 2003
First Named Inventor	Wentworth, Paul
Group Art Unit	1641
Examiner Name	Venci, David

Sheet 3 of 6

Attorney Docket No: 1361.028US1

## OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, Journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/BS/		FOOTE, C. S., "Chapter 3 Photosensitized Oxidation and Singlet Oxygen: Consequences in Biological Systems", In: <u>Free Radicals in Biology</u> , New York: Academic Press (1976), 85-133	
		FOOTE, C S., "Mechanisms of Photosensitized Oxidation. There are Several Different Types of Photosensitized Oxidation Which May be Important in Biological Systems", <u>Science</u> , 162(857), (November 29, 1968), 963-70	
		FOOTE, C S., et al., "Photosensitized Oxygenations and the Role of Singlet Oxygen", <u>Acc. Chem. Res.</u> , 1(4), (1969), 104-110	
		FOWLER, A V., et al., "Amino Acid Sequence of $\beta$ -Galactosidase. XI. Peptide Ordering Procedures and the Complete Sequence", <u>Journal of Biological Chemistry</u> , 253(15), (August 10, 1978), 5521-5	
		FRIMER, ARYEH A., In: <u>Singlet O<sub>2</sub></u> , Boca Raton, Fla. : CRC Press, (1985), 91-143	
		GARCIA, K C., et al., "An $\alpha$ $\beta$ T Cell Receptor Structure at 2.5 Å and its Orientation in the TCR-MHC Complex", <u>Science</u> , 274(5285), (October 11, 1996), 209-219	
		GOLLNICK, K, "Type II Photooxygenation Reactions in Solution", <u>Advances in Photochemistry</u> , 6, (1968), 1-122	
		GREELEY, B. H., et al., "New Pseudospectral Algorithms for Electronic Structure Calculations: Length Scale Separation and Analytical Two-Electron Integral Corrections", <u>The Journal of Chemical Physics</u> , 101(5), (September 1, 1994), 4028-4041	
		GROSSWEINER, L I., "Photochemical Inactivation of Enzymes", <u>Current Topics in Radiation Research Quarterly</u> , 11(2), (March 1976), 141-99	
		HAN, JOAN , et al., "Quantitation of Hydrogen Peroxide Using Tris(2-Carboxyethyl)Phosphine", <u>Analytical Biochemistry</u> , 234(1), (107-109), 1996	
		HASTY, NOEL , et al., "Role of Azide in Singlet Oxygen Reactions: Reaction of Azide With Singlet Oxygen", <u>Tetrahedron Letters</u> , 13(1), (1972), 49-52	
		HOFMAN, PAUL, et al., "Increased <i>Escherichia coli</i> Phagocytosis in Neutrophils That Have Transmigrated Across a Cultured Intestinal Epithelium", <u>Infection &amp; Immunity</u> , 68(2), (February 2000), 449-455	
		KANOFSKY, JEFFREY R., "Singlet Oxygen Production by Biological Systems", <u>Chemico-Biological Interactions</u> , 70(1-2), (1989), 1-28	
		KANOFSKY, J R., et al., "Singlet Oxygen Production by Human Eosinophils", <u>Journal of Biological Chemistry</u> , 263(20), (July 15, 1988), 9692-6	
		KEARNS, DAVID R., "Physical and Chemical Properties of Singlet Molecular Oxygen", <u>Chem. Rev.</u> , 71(4), (1971), 395-427	
↓		KLEBANOFF, SEYMOUR J., "Microbicidal Mechanisms, Oxygen Dependent", In: <u>Encyclopedia of Immunology</u> , Peter J. Delves - Editor, San Diego : Academic Press, (1998), 1713-1718	

/Bin Shen/

EXAMINER

DATE CONSIDERED 10/9/2008

Substitute for form 1445A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

<b>Information Disclosure Statement by Applicant</b> <i>(Use as many sheets as necessary)</i>		Completes If Known		
		Application Number		10/714,567
		Filing Date		November 14, 2003
		First Named Inventor		Wentworth, Paul
		Group Art Unit		1641
Examiner Name		Venci, David		
Sheet 4 of 6		Attorney Docket No: 1361.028US1		

## OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/BS/		KOLLER, JOZE , et al., "Mechanism of the Participation of Water in the Decomposition of Hydrogen Trioxide (HOOOH). A Theoretical Study", <i>Journal of the American Chemical Society</i> , 118(10), (1996),2470-2472	
		KREITNER, MICHAELA , et al., "A Quantitative Determination of Singlet Oxygen With Horseradish Peroxidase", <i>Analytical Biochemistry</i> , 213(1), (1993),63-67	
		LI, TINGYU , et al., "Remarkable Ability of Different Antibody Catalysts To Control and Diversify the Product Outcome of Cationic Cyclization Reactions", <i>Journal of the American Chemical Society</i> , 117(11), (March 22, 1995),3308-3309	
		MARKERT, M , et al., "Measurement of O <sub>2</sub> Production by Human Neutrophils. The Preparation and Assay of NADPH Oxidase-Containing Particles From Human Neutrophils", <i>Methods in Enzymology</i> , 105, (1984),358-65	
		MARTIN, ANDREW C., "Accessing the Kabat Antibody Sequence Database by Computer", <i>Proteins: Structure, Function, &amp; Genetics</i> , 25(1), (1996),130-133	
		MCCORMICK, J P., et al., "Near-Ultraviolet Photooxidation of Tryptophan. Proof of Formation of Superoxide Ion", <i>Journal of the American Chemical Society</i> , 100(1), (January 4, 1978),312-313	
		MERKEL, PAUL B., et al., "Deuterium Effects on Singlet Oxygen Lifetimes in Solutions. New Test of Singlet Oxygen Reactions", <i>Journal of the American Chemical Society</i> , 94(3), (February 9, 1972),1030-1031	
		MICHAELI, ALBERT , et al., "Reactivity of Singlet Oxygen Toward Amino Acids and Peptides", <i>Photochemistry &amp; Photobiology</i> , 59(3), (1994),284-289	
		PLESNICAR, B , et al., "17 O NMR Spectroscopic Characterization and the Mechanism of Formation of Alkyl Hydrotrioxides (ROOOH) and Hydrogen Trioxide (HOOOH) in the Low-Temperature Ozonation of Isopropyl Alcohol and Isopropyl Methyl Ether: Water-Assisted Decomposition", <i>Chemistry - A European Journal</i> , 6(5), (2000),809-819	
		PRANGE, THIERRY , et al., "Exploring Hydrophobic Sites in Proteins With Xenon or Krypton", <i>Proteins: Structure, Function, &amp; Genetics</i> , 30(1), (January 1, 1998),61-73	
		REEVES, E P., et al., "Killing Activity of Neutrophils is Mediated Through Activation of Proteases by K <sup>+</sup> Flux", <i>Nature</i> , 416(6878), (March 21, 2002),291-7	
		SCHARF, HANS D., et al., "The Catalytic Function of Anthraquinones in the Photooxidation of Chloride to Chlorine", <i>Jerusalem Symp. Quantum Chem. Biochem.</i> , 12, (1979),355-65	
		SCHOENBORN, B P., "Binding of Xenon to Sperm Whale Myoglobin", <i>Nature</i> , 207(992), (July 3, 1965),28-30	
		SCOTT, EMILY E., et al., "Ligand Migration in Sperm Whale Myoglobin", <i>Biochemistry</i> , 36(39), (1997),11909-11917	

EXAMINER

/Bin Sheh/

DATE CONSIDERED 10/9/2008

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

<b>Application Number</b>	10/714,567
<b>Filing Date</b>	November 14, 2003
<b>First Named Inventor</b>	Wentworth, Paul
<b>Group Art Unit</b>	1641
<b>Examiner Name</b>	Venci, David

Sheet 5 of 6

Attorney Docket No: 1361.028US1

**OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/BS/		SIEGFRIED, L., et al., "Virulence-Associated Factors in <i>Escherichia coli</i> Strains Isolated From Children With Urinary Tract Infections", <i>Journal of Medical Microbiology</i> , 41(2), (August 1994),127-32	
		SIM, R B., et al., "C1: Molecular Interactions With Activating Systems", <i>Immunology Today</i> , 12(9), (September 1991),307-11	
		SKEPPER, J N., et al., "Cytochemical Demonstration of Sites of Hydrogen Peroxide Generation and Increased Vascular Permeability in Isolated Pig Hearts After Ischaemia and Reperfusion", <i>Microscopy Research &amp; Technique</i> , 42(5), (September 1, 1998),369-85	
		SOLTIS, S M., et al., "Successful Flash-Cooling of Xenon-Derivatized Myoglobin Crystals", <i>J. Appl. Cryst.</i> , 30, (1997),190-194	
		SRINIVASAN, VAKULA S., et al., "Photochemical Generation of O <sub>2</sub> by Rose Bengal and Ru(bpy) <sub>3</sub> <sup>2+</sup> ", <i>Journal of the American Chemical Society</i> , 100(20), (September 27, 1978),6513 ? 6515	
		STEINBECK, MARLA J., et al., "Extracellular Production of Singlet Oxygen by Stimulated Macrophages Quantified Using 9,10-Diphenylanthracene and Perylene in a Polystyrene Film", <i>Journal of Biological Chemistry</i> , 268(21), (1993),15649-15654	
		STEINBECK, MARLA J., et al., "Intracellular Singlet Oxygen Generation by Phagocytosing Neutrophils in Response to Particles Coated With a Chemical Trap", <i>Journal of Biological Chemistry</i> , 267(19), (July 5, 1992),13425-33	
		TAKEUCHI, K , et al., "Continuous Measurement of Ozone in Air by Chemiluminescence Using Indigo-5,5'-Disulfonate", <i>Analytica Chimica Acta</i> , 230(1), (1990),183-188	
		TAKEUCHI, K , et al., "Quantitative Determination of Aqueous-Phase Ozone by Chemiluminescence Using Indigo-5,5'-Disulfonate", <i>Analytical Chemistry</i> , 61(6), (March 15, 1989),619-23	
		TILTON JR., R F., et al., "Protein-Ligand Dynamics. A 96 Picosecond Simulation of a Myoglobin-Xenon Complex", <i>Journal of Molecular Biology</i> , 199(1), (January 5, 1988),195-211	
		VINCENT, M A., et al., "Structures on the Singlet and Triplet O <sub>3</sub> H <sub>2</sub> Potential Energy Surfaces: Implications for Photonucleation of Water in the Presence of Molecular Oxygen", <i>Journal of Physical Chemistry</i> , 99(10), (March 9, 1995),3109-3113	
		VOSS, R H., et al., "Crystal Structure of the Bifunctional Soybean Bowman-Birk Inhibitor at 0.28-nm Resolution", <i>European Journal of Biochemistry</i> , 242(1), (November 15, 1996),122-131	
↓		WAGNER, J , et al., "Efficient Aldolase Catalytic Antibodies That Use the Enamine Mechanism of Natural Enzymes", <i>Science</i> , 270(5243), (December 15, 1995),1797-1800	

EXAMINER

/Bin Shen/

DATE CONSIDERED

10/9/2008

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known	
Application Number	10/714,567
Filing Date	November 14, 2003
First Named Inventor	Wentworth, Paul
Group Art Unit	1641
Examiner Name	Venci, David

Sheet 6 of 6

Attorney Docket No: 1361.028US1

## OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/BS/		WALRANT, P , et al., "N-Formyl-Kynurenone, a Tryptophan Photooxidation Product, as a Photodynamic Sensitizer", <u>Photochemistry &amp; Photobiology</u> , 19(6), (June 1974),411-7	
		WELINDER, K G., et al., "Amino Acid Sequences and Structures of Chicken and Turkey Beta2-Microglobulin", <u>Immunology</u> , 28(1-2), (January-February 1991),177-82	
		WENTWORTH, ANITA D., et al., "Antibodies Have the Intrinsic Capacity to Destroy Antigens", <u>Proceedings of the National Academy of Sciences of the United States of America</u> , 97(20), (September 26, 2000),10930-10935	
		WENTWORTH JR., PAUL , et al., "Antibody Catalysis of the Oxidation of Water", <u>Science</u> , 293(5536), (September 7, 2001),1806-1811	
		WENTWORTH JR., PAUL , "Catalytic Antibodies", <u>Current Opinion in Chemical Biology</u> , 2(1), (February 1998),138-144	
		WENTWORTH JR., PAUL , "Tech.Sight. Antibody Design by Man and Nature", <u>Science</u> , 296(5576), (June 21, 2002),2247-9	
		WILKINSON, F , et al., "Rate Constants for the Decay and Reactions of the Lowest Electronically Excited Singlet State of Molecular Oxygen in Solution. An Expanded and Revised Compilation", <u>J. Phys. Chem. Ref. Data</u> , 24, (1995),663	
		WINKLER, JAY R., et al., "Electron Tunneling in Biological Molecules", <u>Pure &amp; Applied Chemistry</u> , 71(9), (1999),1753-1764	
		WINKLER, JAY R., "Electron Tunneling Pathways in Proteins", <u>Current Opinion in Chemical Biology</u> , 4(2), (April 2000),192-198	
		ZHAI, X , et al., "Direct Detection and Quantification of Singlet Oxygen During Ischemia and Reperfusion in Rat Hearts", <u>American Journal of Physiology</u> , 269(4 Pt 2), (October 1995),H1229-36	
↓		ZHOU, M , et al., "A Stable Nonfluorescent Derivative of Resorufin for the Fluorometric Determination of Trace Hydrogen Peroxide: Applications in Detecting the Activity of Phagocyte NADPH Oxidase and Other Oxidases", <u>Analytical Biochemistry</u> , 253(2), (November 15, 1997),162-8	

↓

EXAMINER

/Bin Shen/

DATE CONSIDERED 10/9/2008

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not it is in conformance with MPEP 606. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1. Applicant's unique citation designation number (optional) 2. Applicant is to place a check mark here if English language Translation is attached

Substitute for Form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>		<b>Complete If Known</b> <b>Application Number</b> 10/714,567 <b>Filing Date</b> November 14, 2003 <b>First Named Inventor</b> Wentworth, Paul <b>Group Art Unit</b> 1641 <b>Examiner Name</b> Venci, David		
Sheet 1 of 1		Attorney Docket No: 1361.028US1		

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
				T <sup>2</sup>

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>

**OTHER DOCUMENTS – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/BS/		"Press Release - Ozone Is Produced by Antibodies During Bacterial Killing and in Inflammation, Say Scientists at The Scripps Research Institute", The Scripps Research Institute, <a href="http://www.scripps.edu/news/press/111402.html">http://www.scripps.edu/news/press/111402.html</a> (Nov. 14, 2002).	
/BS/		DEVANATHAN, S. , et al., "Readily Available Fluorescein Isothiocyanate-Conjugated Antibodies Can be Easily Converted into Targeted Phototoxic Agents for Antibacterial, Antiviral, and Anticancer Therapy", <i>Proc. Natl. Acad. Sci. USA</i> , 87 (1990), pp. 2980-2984	

EXAMINER /Bin Shen/

DATE CONSIDERED 10/9/2008

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE					ATTY DOCKET NO. TSRI 939.I US	SERIAL NO. 10/534,574
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					APPLICANT Wentworth, et al.	
					FILING DATE 06/12/2006	GROUP 1657

## U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
/BS/	1	US 6,610,310 B2	08/26/2003	Hilgers			
	2	US 2002/0031522 A1	03/14/2002	Baltimore, et al.			
	3	US 6,346,547 B1	02/12/2002	Tzodikov			
	4	US 6,080,385	06/27/2000	Clark, et al.			
	5	US 5,846,959	12/08/1998	Medford, et al.			
	6	US 5,811,449	09/22/1998	Medford, et al.			
	7	US 5,773,209	06/30/1998	Medford, et al.			
	8	US 5,750,351	05/12/1998	Medford, et al.			
↓	9	US 4,988,616	01/29/1991	Heidenreich, et al.			
	10	US 4,684,521	08/04/1987	Edelson			

## FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

/BS/	11	Aaku, et al., "Human immunoglobulin G potentiates superoxide production induced by chemotactic peptides and causes degranulation in isolated human neutrophils". <i>Biochimica et Biophysica Acta</i> 1052: 243-247 (1990)
	12	Bass, et al., "Flow Cytometric Studies of Oxidative Product Formation by Neutrophils: A Graded Response to Membrane Stimulation". <i>Journal of Immunology</i> 130, 4 1910-1917 (1983)
	13	Cheung, et al., "Luminol-Dependent Chemiluminescence Produced by Neutrophils Stimulated by Immune Complexes". <i>Aust. J. Exp. Biol. Med. Sci.</i> , 62: 403-419 (1984)
	14	Collinson, et al., "The Radiation Chemistry of Organic Substances". <i>Chem. Rev.</i> 56: 471-568 (1956)
	15	Corstens, et al., "Radioimmunoconjugates in the Detection of Infection and Inflammation". <i>Sem. Nucl. Med.</i> 23: 148-164 (1993)
	16	Harman, et al., "Free Radical Theory of Aging: Inhibition of Amyloidosis in Mice by Antioxidants; Possible Mechanism". <i>J. Am. Geriat. Soc.</i> 24: 203-210 (1976)
	17	Hewitt, et al., "Effect of Free Radical Altered IgG on Allergic Inflammation". <i>Ann. Rheum. Dis.</i> 46: 866-874 (1987)
↓	18	Iribarren, et al., "Association of Serum Vitamin Levels, LDL Susceptibility to Oxidation, and Autoantibodies Against MDA-LDL with Carotid Atherosclerosis". <i>Arterioscler. Thromb. Vasc. Biol.</i> 17: 1171-1177 (1997)

EXAMINER	/Bin Shen/	DATE CONSIDERED
		10/9/2008

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT					ATTY DOCKET NO. TSRI 939.I US		SERIAL NO. 10/534,574	
					APPLICANT Wentworth, et al.		FILING DATE 06/12/2006	
					GROUP 1657			
U.S. PATENT DOCUMENTS								
EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE	
FOREIGN PATENT DOCUMENTS								
EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)								
/BS/	19	Ishiyama, et al., "Role of Free Radicals in the Pathogenesis of Lipid-Induced Glomerulosclerosis in Rats", <u>Kidney International</u> 55: 1348-1358 (1999)						
	20	Johnson, et al., "In Vivo Formation of 25-Hydroxycholesterol from Endogenous Cholesterol after a Single Meal, Dietary Cholesterol Challenge", <u>Journal of Lipid Research</u> 35: 2241-2253 (1994)						
	21	Joschek, et al., "Optical Generation of Hydrated Electrons from Aromatic Compounds", <u>J. Am. Chem. Soc.</u> 88: 3261-3268 (1966)						
	22	Mehta, et al., "Modulation of Human Neutrophil, Superoxide Production by Selective Thromboxane Synthetase Inhibitor U63,557A", <u>Life Sciences</u> 43: 923-928 (1988)						
	23	Noguchi, et al., "Role of Myeloperoxidase in the Neutrophil-Induced Oxidation of Low Density Lipoprotein as Studied by Myeloperoxidase-Knockout Mouse", <u>J. Biochem</u> 127: 971-976 (2000)						
	24	Oyanagi, et al., "Inhibition by Nilvadipine of Ischemic and Carrageenan Paw Edema as well as of Superoxide Radical Production from Neutrophils and Xanthine Oxidase", <u>Arzneim.-Forsch./Drug Res.</u> 41: 469-474 (1991)						
	25	Palozza, et al., "Antioxidant Effects of Carotenoids in Vivo and in Vitro: An Overview", <u>Methods Enzymol.</u> 213: 403-420 (1992)						
	26	Pronai, et al., "Decreased Plasma Superoxide Scavenging Activity in Immunological Disorders - Carboxyethylgeranium Sesquioxide (Ge-132) as a Promoter of Prednisolone", <u>Biotherapy</u> 4: 1-8 (1992)						
	27	Rusznak, et al., "Biological Effects of UV-Radiation Generated Within the Living Organism", <u>Experientia</u> 24: 863-864 (1968)						
	28	Sekiya, et al., "Keishi-bukuryo-gan Preserves the Endothelium Dependent Relaxation of Thoracic Aorta in Cholesterol-fed Rabbit by Limiting Superoxide Generation", <u>Phytotherapy Research</u> 16: 524-528 (2002)						
	29	Strong, et al., "Antibody-targeted photolysis", <u>Ann. N.Y. Acad. Sci.</u> 745: 297-320 (1994)						
	30	Suber, R.L., "Clinical Pathology Methods for Toxicology Studies", <u>Principles and Methods of Toxicology</u> , 3rd Edition, Chapter 20: 729-766 (1994)						
	31	Swaak, et al., "Possible Role of Free Radical Altered IgG in the Etiopathogenesis of Rheumatoid Arthritis", <u>Rheumatol. Int.</u> 9: 1-6 (1989)						
	32	Valgimigli, et al., "Measurement of Oxidative Stress by EPR Radical-Probe Technique", <u>Free Radical Biology and Medicine</u> 31: 708-716 (2001)						
↓	33	Van Den Berg, et al., "Measurement of Reaction Products from Hypochlorous Acid and Unsaturated Lipids", <u>Methods in Enzymology</u> 233: 639-649 (1994)						
EXAMINER /Bin Shen/				DATE CONSIDERED 10/9/2008				

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.